



Different States of Parcel Information in California

**Digital Land Records
Information Workshop**

October 19, 2005

**Malcolm Adkins
Michael Baker Jr., Inc**



DLRI Charter

1. Define the problem created by not coordinating the development of parcel information.
 2. Make policy recommendations to improve accessibility and integration of parcel formation to improve interoperability of local, state, and federal government in California.
- The California GIS Council has identified parcel data layer as being one of the basic GIS layers needed by all levels of government for effective communication within the individual government entities and across jurisdictions. Stakeholders agree that for effective data sharing to take place a data set(s) that adheres to agreed accuracy standards, formats, and descriptions (metadata) is essential.

Workshop Purpose

The purpose of the workshop is to identify potential solutions to overcome challenges to participation in a statewide digital parcel database by all counties in California.

Additionally, the workshop seeks to identify methods for standardization of information and data distribution.

Solutions may come from expanding existing efforts such as the Standard Data Record (SDR) system.

Statewide Parcel Database

- All counties available?
- All counties available from one source?
- All counties individual county-by-county?
- All counties stitched?
- All counties in their current format?
 - Layers, attributes, projection,
- All counties available in a common standard?
- All counties map virtually to a common standard?



Parcel Availability

- Electronic Vector
 - GIS-based
 - Spatial / Geo-referenced
 - CAD-based
 - Non-Spatial Reference
- Non-Vector
 - Paper
 - Scanned paper



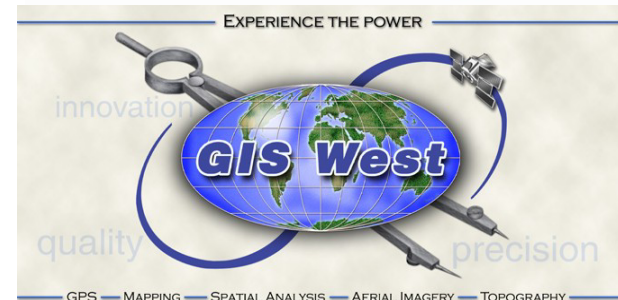
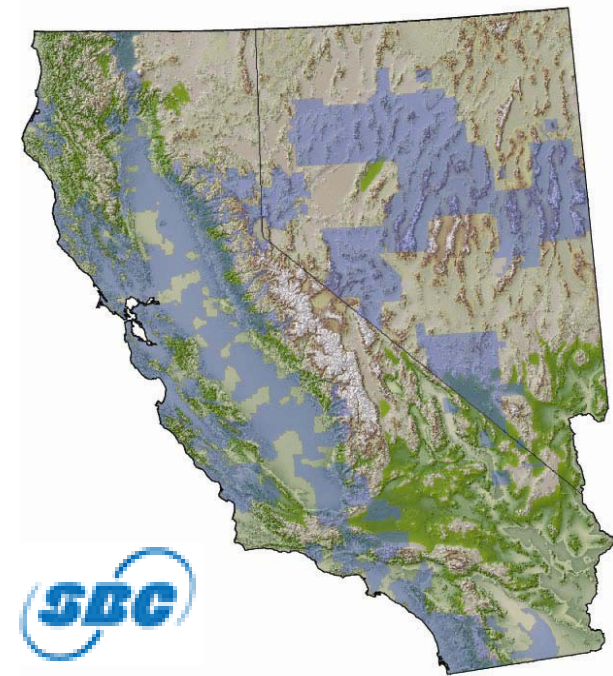
Source Parcel Data

- What was the original business purpose?
 - This implies the accuracy...
- When was it built?
- How was it built?
- How is it maintained?



Obtaining Parcels Today

- One time acquisition/ purchase
- Licensing with updates
- Fees
 - No cost, Low cost, High cost
- Variety of agreement types
- Restrictions on use
- No liability for use



Statewide Dataset: Initial Build

Initial Build

- Inventory Availability
- Obtain Product
- Analyze Product
- Deploy Product
- Enhance Product
 - Correct, rubber sheet register, stitch

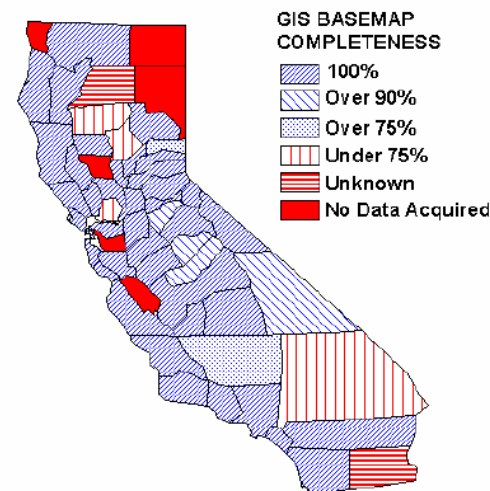
Common specifications or translation model

Is a GIS Parcel Basemap Available?

Each county was asked if they maintained a GIS parcel basemap. To accommodate agencies using CAD for mapping purposes, the qualifications for a GIS basemap are; the parcels are on a geographic coordinate system and the parcels can be related to attribute data, specifically the Assessor's roll.

Of the fifty-eight counties in California eighty-eight percent, or fifty-one counties, responded that they have a GIS parcel basemap available. Ten of these counties describe their basemap as available but still in progress (some portion of the county is complete). The counties that did not have GIS indicated plans to implement GIS in the near term.

The level of basemap completion is variable. Thirty-eight of the counties report their basemap as completely mapped, four have ninety percent or more of their mapping completed, two others have seventy-five percent or more done and four counties reported their basemap completion as less than seventy-five percent. Eight counties did not report a percentage of completeness for their basemap.



Level of Completeness

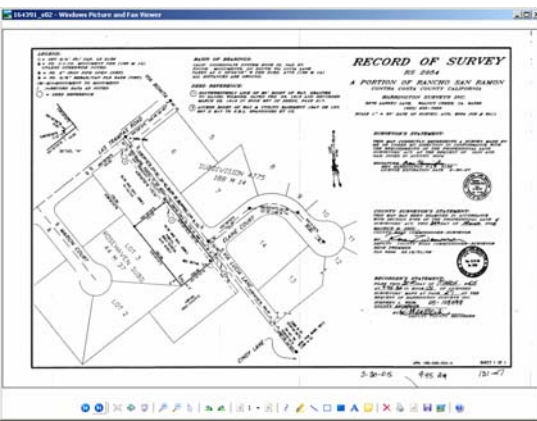
100%	Over 90%	Over 75%	Under 75%	Unknown
40	4	2	4	2

Statewide Dataset: Sustain

Future Updates

- Determine Frequency
- Receive, Log, Deploy
- Re-stitch into parcel fabric

Common specifications or translation model



Landbase Job Information

Attributes | Deleted Documents |

Landbase Job No.	Status	Source	Tract Number	Parcel Map Number
104391	NCAMRD	Other		

Job Title
RD 2054

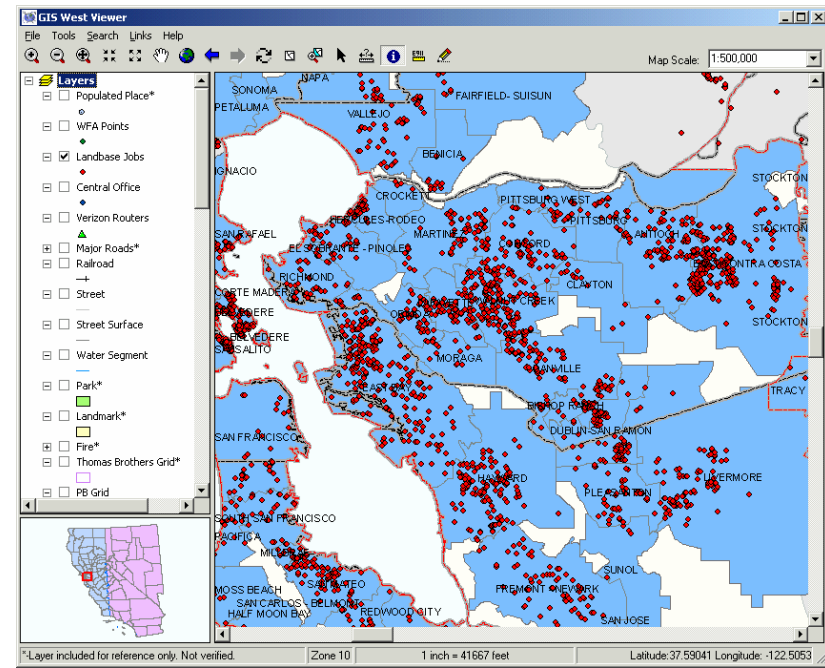
Use Attributes: ☐ New Attributes ☐ New Alternate Parcels ☐ In WofS ☐ Number of Parcels

Genl Attributes				
County	State	Zip Code	Post Office	
CONTRA COSTA	CA	94501	ALAMO	
Tax Code	Franchise	Cross Streets		
207	CONTRA COSTA COUNTY	ELABRE CT & VIA LUCALA LN		

Telco Attributes				
CLL1	Worcester	Exchange	EXCD	
DAYVCA12	DANVILLE-12	DANVILLE	DANVIN	
Design Area	Business Unit	PIR Grid 2000*	PIR Grid	
TRI VALLEY	NORTH BAY	2548-6412	day310ad.bnd	

APES Attributes		
Area Code, Status	FSA	APES Job Number
515	The Valley Design Area	

Go To Job: Go



Statewide Dataset: Deploy

- Infrastructure and Standardization
- Financial Implications

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CaSIL
The California Spatial Information Library

Welcome to the California Geographic Information Systems (GIS) web portal. The California Mapping Coordinating Committee (CMCC) is in the process of developing a series of GIS-related web pages to provide information on State government GIS activities, access to statewide GIS data, and links to the larger California GIS community. ***This website and the Spatial Information Library are works in progress.***

Starting July 1, 2001 some of California's physical and cultural geospatial information, formerly distributed by the Teale Data Center, is being distributed to the public by the California Mapping Coordinating Committee through servers at the California Environmental Resources Evaluation System (CERES) in the Resources Agency and National Aeronautics and Space Administration (NASA) Ames Research Center.

Note: CMCC will be working to update and improve some of the spatial data in the library and provide access or links to more up-to-date data served by others over the next several years as need and funding permit. Caution should be exercised when using some of the layers of data as they are somewhat outdated; particularly those datasets that change rapidly (i.e., schools, health facilities, etc.). We strongly recommend that users refer to the metadata or information about GIS datasets for appropriate uses of the data, source information, scale information, and general quality.

CMCC would like to acknowledge the support of the Executive Sponsors in the Resources Agency, Department of Information Technology, California Environmental Protection Agency, Governor's Office of Planning and Research, and Health and Human Services Agency.

We would also like to gratefully acknowledge NASA's funding support for CaSIL under Cooperative Agreement Notice 97-MTPE-02.

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- Knowledge and Contacts
- Existing County Parcels
- Assessor Map Books
- Mapping Standards
- State Infrastructure
- Regional Collaboratives
- National Initiatives
- Deployment Experiences
- Previous Research
- Belief That This is Possible

CSAC California State Association of Counties
Serving California's 58 Counties Since 1894

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CSAC Advocacy
CSAC Services
Inside CSAC
FAQs

In The News

Monterey County Eyes Prop. 63 Funds
Ruling Says Delta Water Plan Flawed
If Economy Slows, State Could Face Severe Budget Crisis
Bay Area Cities/Counties to Pool Disaster Resources
Identify Theft Cases Overwhelm Local Law Agencies
Solano County Logs One of its Cleanest Smog Years

A Look Back, A Look Forward

The 2005 legislative session officially ended with the Governor's October 9 deadline to act on measures sent to him by the Legislature. As CSAC reviews the final outcomes, it's clear that the principal victory for counties was avoiding any major legislative blows.

Of the 961 bills the Legislature sent to Governor Schwarzenegger in the last ten days of the legislative session, he vetoed 232 and signed 729, the lowest number of bills signed by any recent governor. Such statistics are not surprising, considering the current political climate in the state and the focus on the special election. We outline the Governor's actions on a number of measures of interest to counties under the subject matter areas that follow. The final scorecard for the legislative session has yet to be determined, however, as there are a number of unresolved issues that await the Governor and legislators when they return to work in January. Here's a glimpse of what's to come in 2006. Read more.

Annual Meeting Information
Register Online Today!
More Meeting Information

O.C. Health Officer Named to State Post

CSAC Indian Gaming Forum Filling Up Fast

Counties Call for Election Reimbursement

More County News More State News

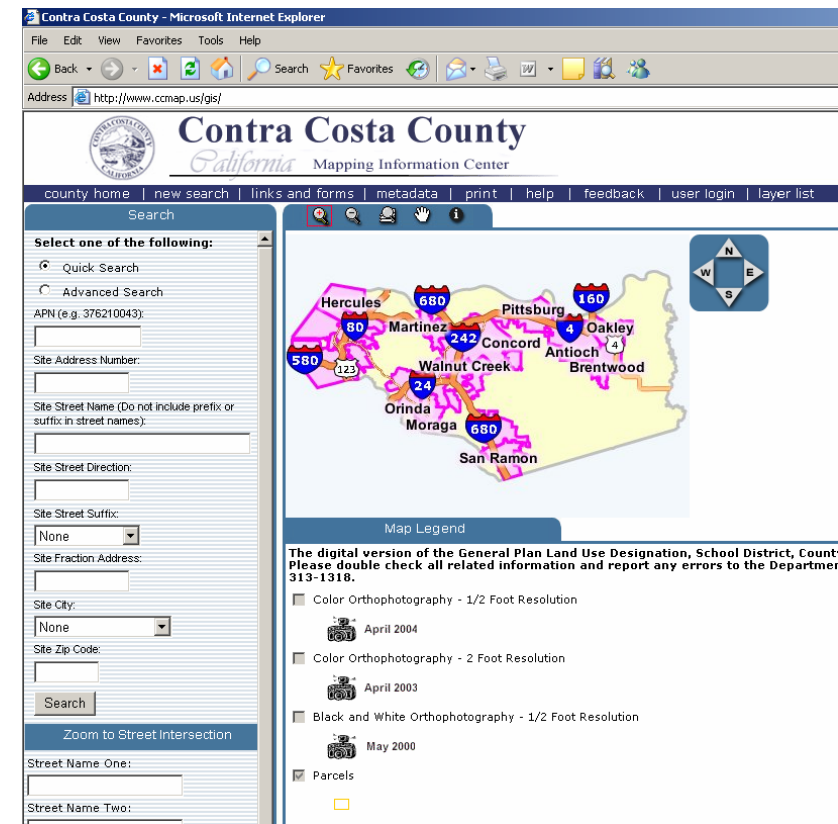
Public Agency Programs

CSAC Publications
CSAC Newsroom
CSAC Calendar of Events
CSAC Finance Corp
CSAC Affordable Conferencing
View Cart

CA County Magazine

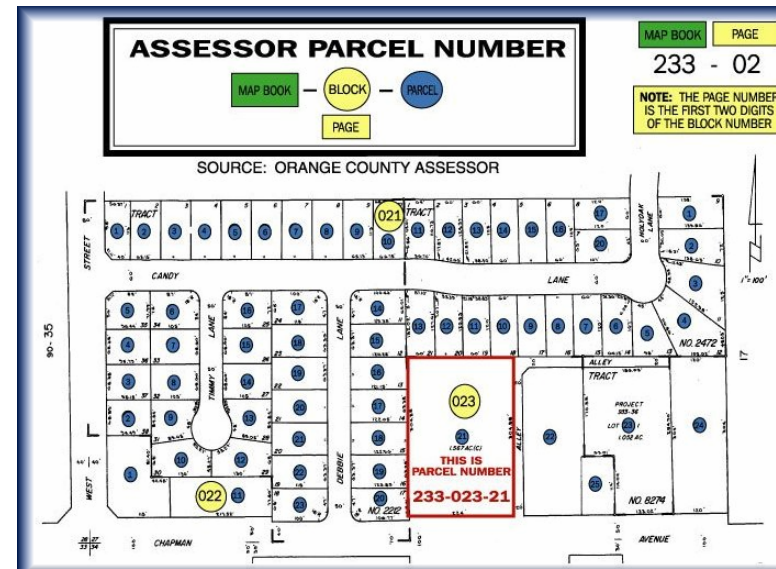
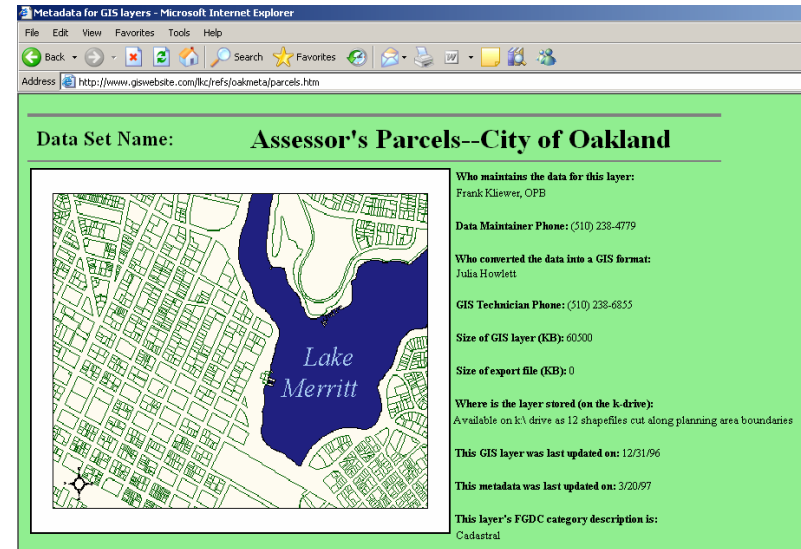
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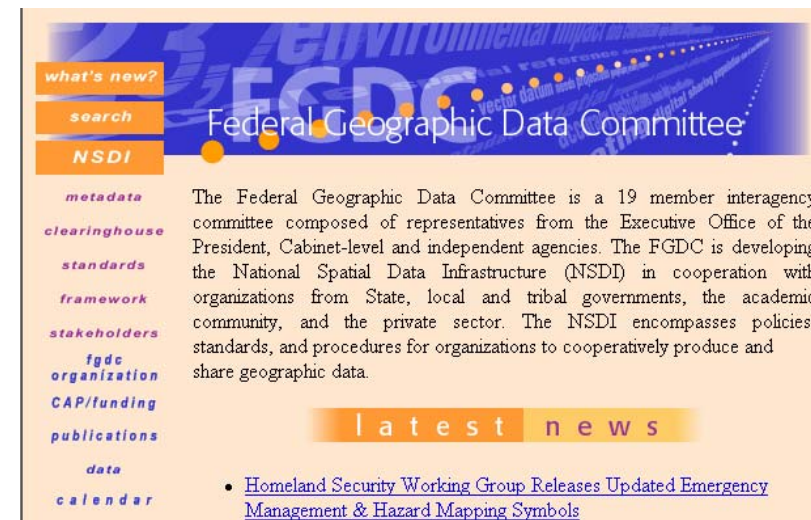
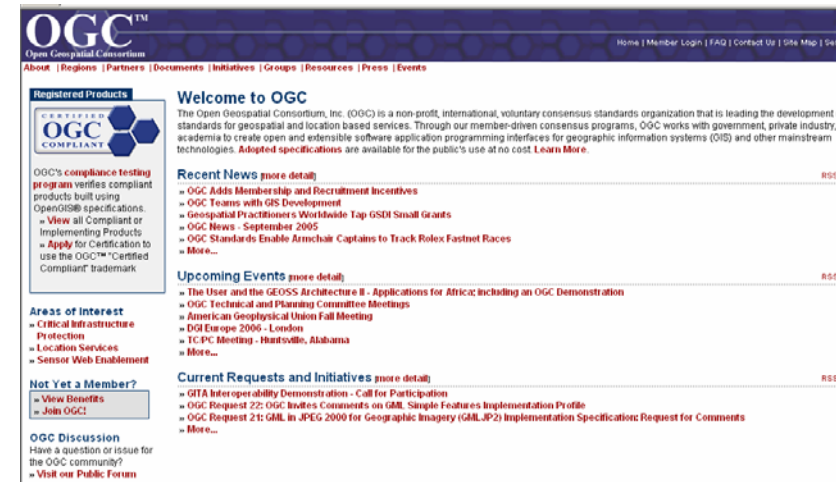
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- [Homeland Security Working Group Releases Updated Emergency Management & Hazard Mapping Symbols](#)

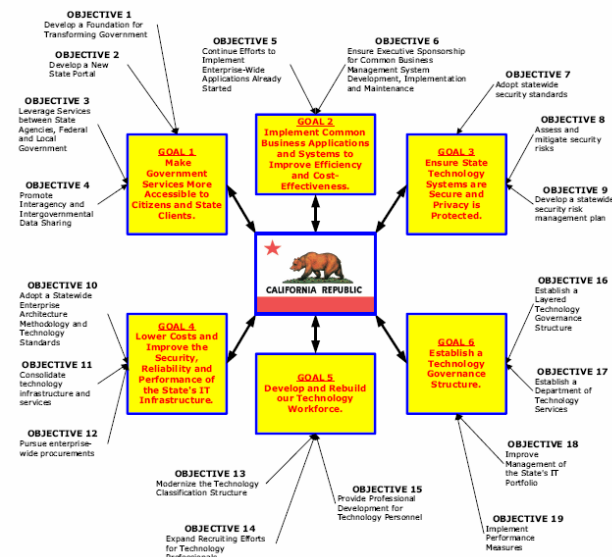
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CALIFORNIA IT STRATEGIC PLAN SUMMARY

Mission: Information technology support for the Executive Branch of California State Government will operate as a seamless enterprise, delivering consistent, cost-effective, reliable, accessible and secure services that satisfy the needs of its diverse public and private customers, including the People of California, its business communities and its public sector agencies.



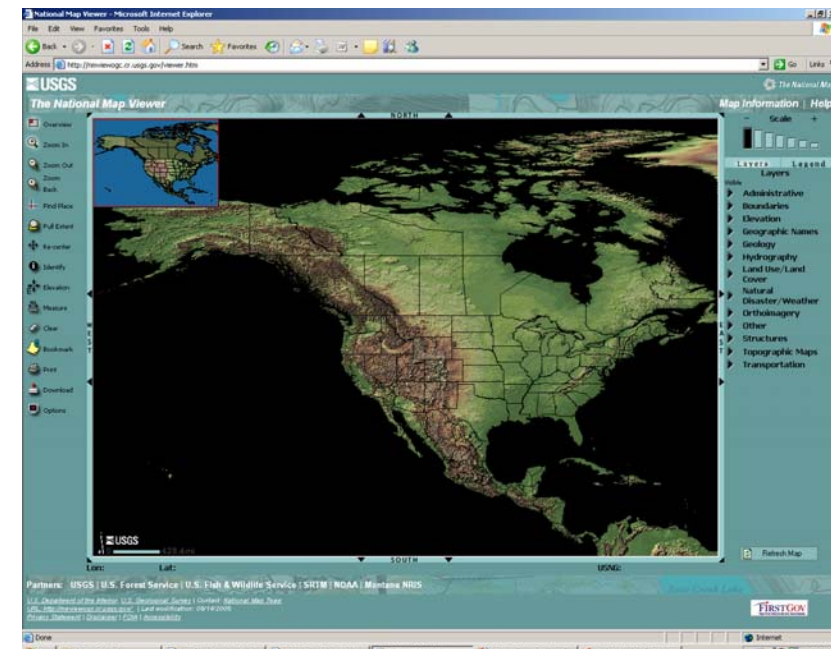
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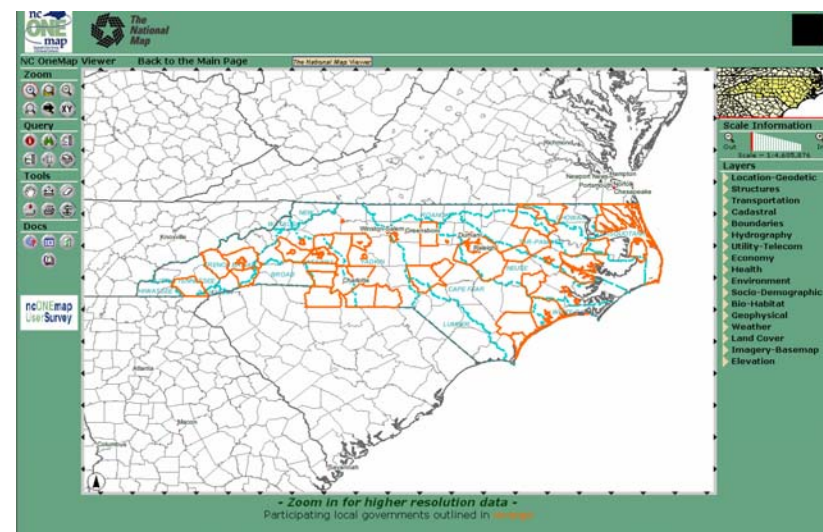
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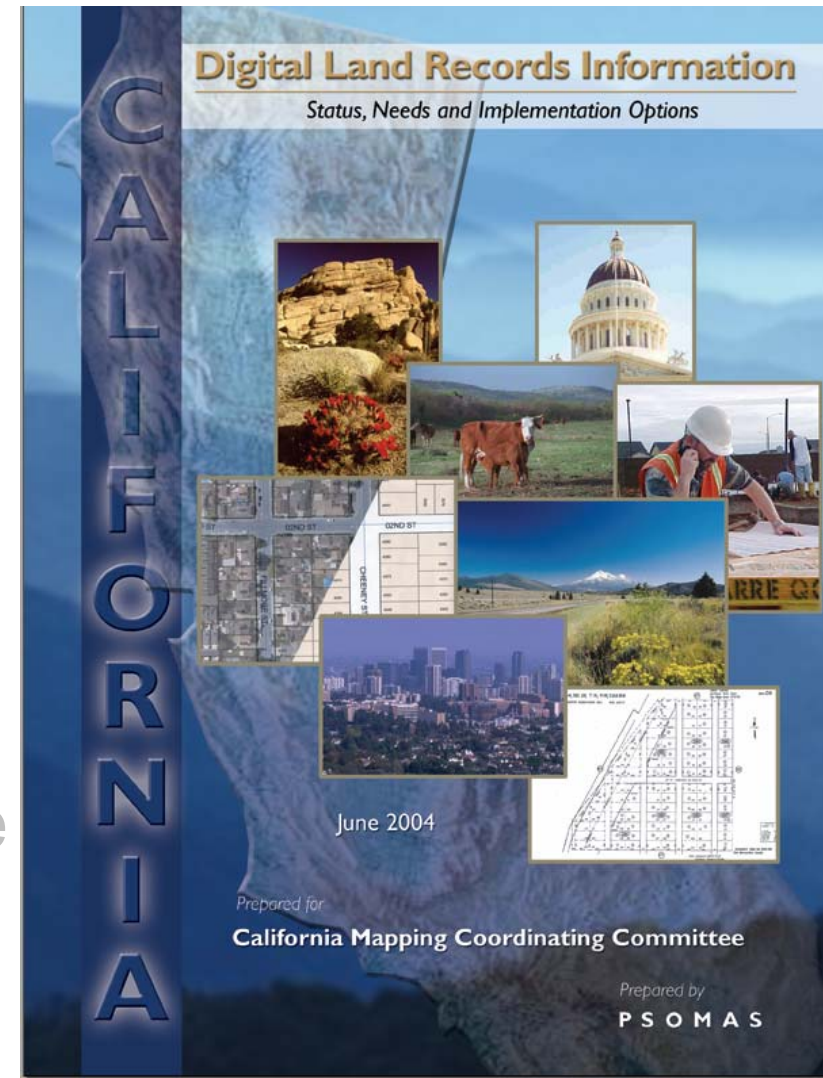
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Existing Models: Communication

MEGIS - Standards and Guidelines - Microsoft Internet Explorer

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Geographic Information Systems

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Standards and Guidelines

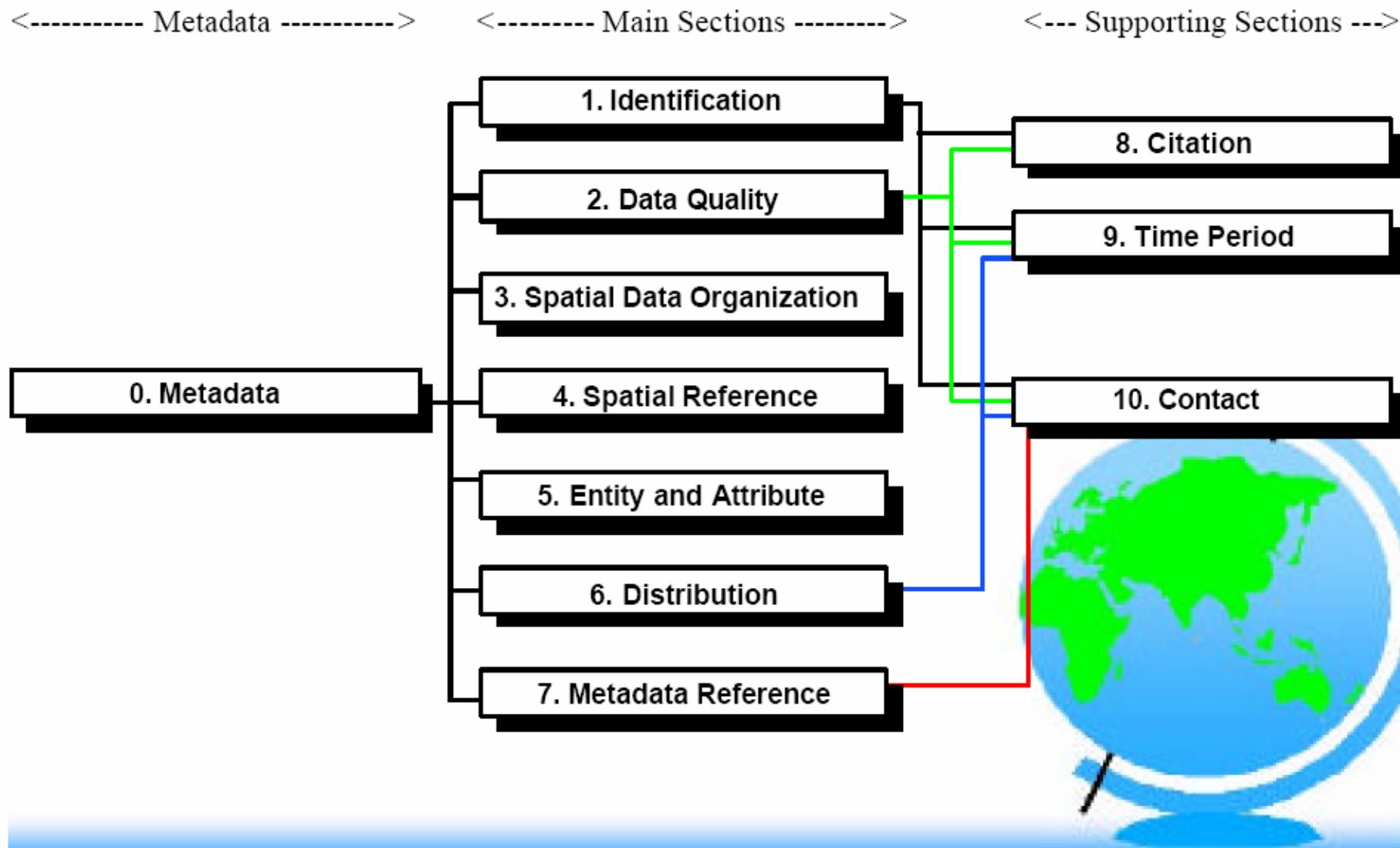
Maine GIS Documents

<p>Data Standards for Maine Geographic Information Systems 2002</p> <p>Rich Text Format</p> <p>Plain Text Format (ASCII)</p>	<p>Maine's Information Systems Policy Board (ISPB) approved these "Data Standards for Maine Geographic Information Systems 2002" in June 2002, as presented by the Geographic Information Systems Executive Council (GIS EC) and the Maine Office of Geographic Information Systems. The overall goal is to ensure that a high quality, well-documented GIS database is built for the State of Maine. The document objectives are three-fold:</p> <ol style="list-style-type: none"> 1. Set technical specifications for geospatial data automation and development; 2. Provide basic guidance in map compilation/recompilation; 3. Provide standard procedures for documenting the history of each geospatial data layer and source map to aid users of the Maine GIS database in determining the viability of those data for specific applications.
<p>Digital Parcel Standards (Rich Text)</p> 	<p>In January of 2003, under the auspices of the Maine Geolibrary Board, a Digital Parcel Standards Committee was formed to develop published standards for digital tax parcel data. The Committee, through meetings and electronic review, worked out the basic standards for the acceptance of parcel (cadastral) spatial and tabular data into the Geolibrary. These standards were formalized into this publication which was then presented along with certain recommendations to the Geolibrary Board on May 21st, 2003.</p>
<p>Standard Geographic Codes for Maine Minor Civil Divisions</p> 	<p>The first official Standard Geographic Code endorsed and adopted by the Governor of Maine, on July 1, 1971. Geocodes have undergone subsequent revisions, all of which were "officially" rolled back to this 1971 list by Maine's Information Services Policy Board (ISPB), as of January 2000. In 1971, all Maine state agencies were requested to implement these five digit geocodes, in agency information systems, to build a base of data for Maine's Minor Civil Divisions (MCDs) and to promote data sharing. The first two digits of the geocode represent the federal code (FIPS) for Maine counties, the remaining three digits uniquely identify each of Maine's MCDs and Reservations.</p>
<p>Maine GIS & FGDC</p>	<p>Maine GIS has adopted the Federal Geographic Data Committee (FGDC), Content Standard for Digital Geospatial Metadata (CSDGM) as a documentation or "metadata" standard. Maine GIS data documented with FGDC metadata is published through the Maine Office of GIS (MEGIS) internet Data Catalog and can be made available to the national clearinghouse nodes of the National Spatial Data Infrastructure (NSDI).</p>
<p>Maine GIS Feature Metadata Recommendation 2000</p>	<p>The Maine GIS Feature Metadata Recommendation was presented to the GIS Technical Group in October 2000, by the GIS Technical Group feature metadata subcommittee and was submitted to the GIS Executive Council in December of the same year.</p>
<p>Remotely-sensed Data Subcommittee Final Report (MS Word)</p>	



Internet

Existing Standards: FGDC



Existing FGDC Metadata Model

Identification

Title? Area Covered? Themes? Currentness? Restrictions

Data Quality

Accuracy? Completeness? Logical Consistency? Lineage?

Spatial Data Organization

Indirect? Vector? Raster? Type of Elements? Number?

Spatial Reference

Projection? Grid System? Datum? Coordinate System?

Entity and Attribute Information

Features? Attributes? Attribute Values?

Distribution

Distributor? Formats? Media? Online? Price?

Metadata Reference

Metadata Currentness? Responsible Party?

Existing Analysis: FGDC

Identification Information

- What is the name of the dataset?
- What is the subject or theme of the information included?
- What is the scale of the dataset?
- What are the attributes of the dataset?
- Where is the geographic location of the dataset?
- Who developed the dataset?
- Who provided the source material for the dataset?
- Who will publish the dataset?
- When were the features of the dataset identified?
- How are the features of the dataset depicted?
- Why was the data set created?
- Are there restrictions on accessing or using the data?
- Are external files available that are related to the dataset?

Data Quality Information

- How reliable are the data?
- What are its limitations or inconsistencies?
- What is the positional and attribute accuracy?
- Is the dataset complete?
- Were the consistency and content of the data verified?
- Where can the sources of the data be located?
- What processes were applied to these sources and by whom?

Spatial Data Organization

- What spatial data model was used to encode the spatial data?
- How many and what kind of spatial objects are included in the dataset?
- Are methods other than coordinates, such as street addresses used to encode locations?

Spatial Reference

- Are coordinate locations encoded using longitude and latitude?
- What map projections is used?
- What horizontal datum and/or vertical datum are used?
- What parameters should be used to convert the data to another coordinate system?

Entity and Attribute Information

- What geographic information (roads, houses, elevation, temperature, etc.) is described?
- How is this information coded?
- What do the codes mean?
- What source was used for defining the attributes or codes, i.e. Cowardin classification?

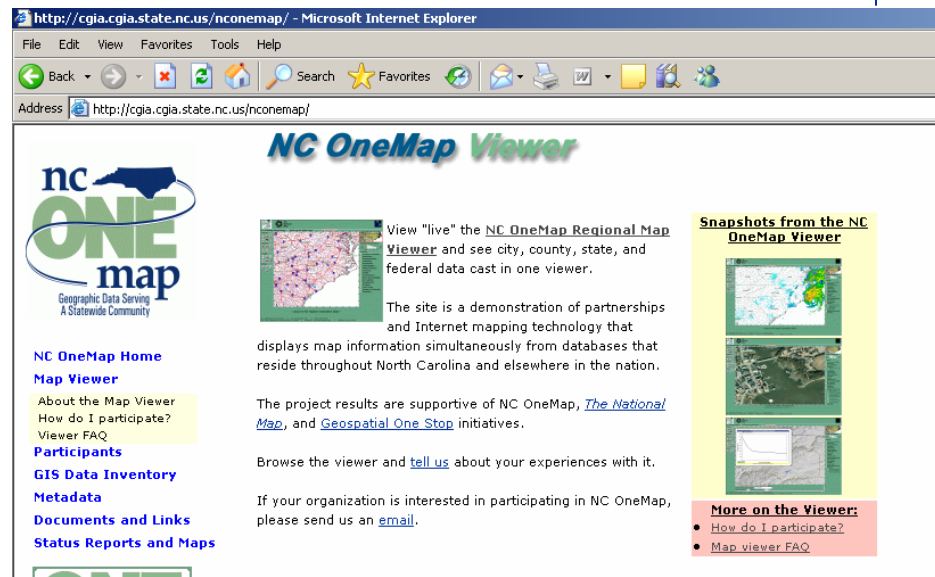
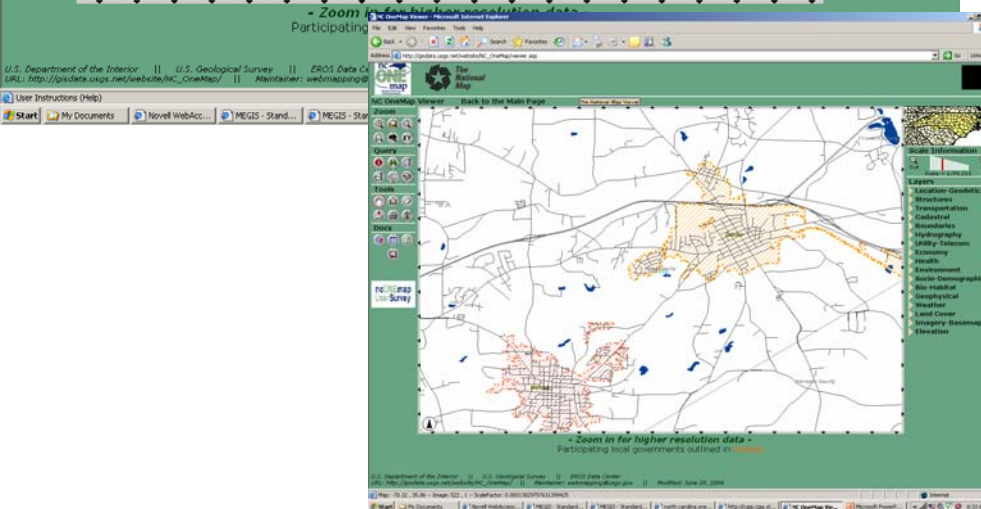
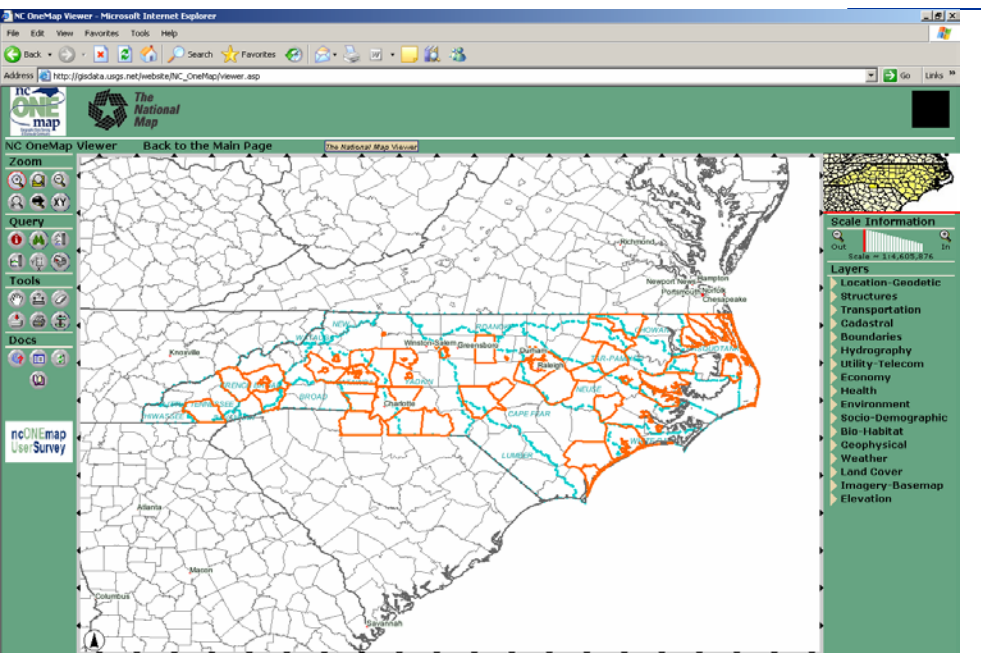
Distribution

- From whom can the data be obtained?
- What formats are available?
- What media are available?
- Are the data available online?
- What is the price of the data?

Metadata Reference

- When were the metadata compiled, and by whom?
- When was the metadata record created?
- Who is the responsible party?
- When were the metadata last updated?

Existing Deployment: NC OneMap



Participating in the NC OneMap Map Viewer...

The NC OneMap data viewer takes advantage of internet mapping technology that allows quick access to spatial data that you, the data provider, always control at the source. Participation allows your data to be viewed and used within a local and regional context to aid decision-making, and inform the public.

Participation is easy when you meet these conditions:

1. You have committed to offer free public access to view map images and identify/view feature attribute information for the data layers you choose to serve. (NOTE: If your Web Map Service (WMS) product of choice does not offer the capability to query feature information, this is OK, as this technically is an optional portion of the WMS standard.)
2. You need to be operating a WMS map service that complies with at least version 1.1.0 of the OpenGIS Consortium's WMS standard. WMS 1.1.1 is also acceptable. WMS 1.0.0 is not.
3. You need *one* Federal Geographic Data Committee (FGDC) compliant metadata record online by June 30, 2004 for any data layer you wish to serve to the NC OneMap viewer. (NOTE: CGIA will provide free training and assistance in metadata creation and validation, and will help you write it.)
4. You *may* have the NC OneMap viewer link to your website or FTP site to allow free data download capabilities for your data layers *if* your organization's data access policy permits this.
5. You need to contact the NC OneMap team at NC CGIA (david.giordano@ncmail.net) to exchange necessary technical information.

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